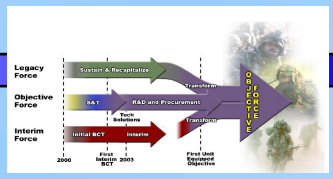
Force Projection Supporting the Transforming Army

R&D Symposium: JLOTS and Logistics from the Sea
29-31 Jan 02

CPT Sarah Small
Army G-4, Strategic Mobility Division



Agenda

- Army Transformation
- DCSLOG Transformation Charter
- Army Power Projection Program (AP3)
- AP3 Enablers
- Pre-positioning Initiatives
- Summary

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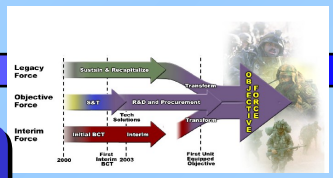
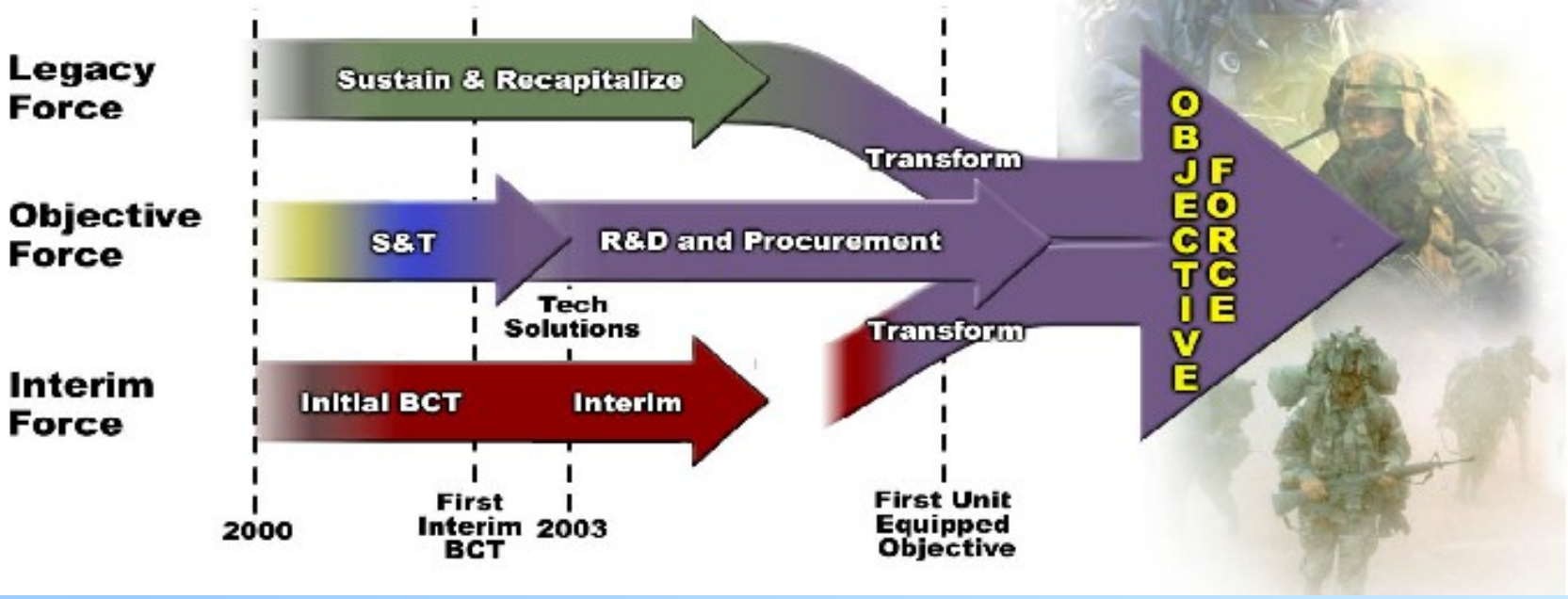
Army Transformation



FUTURE FORCE

The Army will transform as rapidly as possible, maintaining focus on warfighting readiness and taking care of our people. Transformation will entail simultaneous maintenance of a trained and ready force capable of fighting and winning the Nation's wars, transformation of the operational force, and of the institutional Army.



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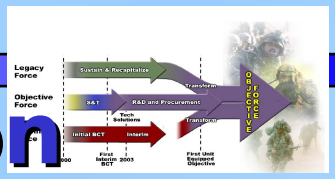
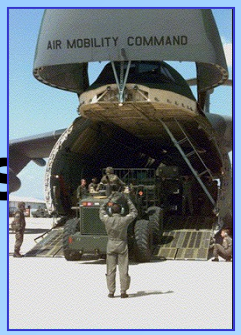
DCSLOG Transformation Charter

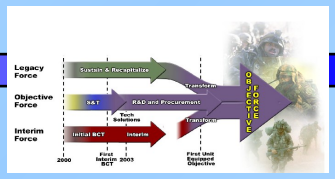




- **Enhance Strategic Responsiveness**
  - *meet new deployment timelines*

- **Reduce the CS/CSS Footprint in the Combat Zone**

- **Reduce Cost of Logistics without Reducing Warfighting Capability or Readiness**



Enhance Strategic Responsiveness

Meet new deployment timelines

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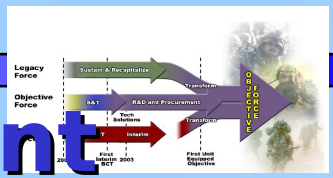
Transforming Deployment Capability



MRS BURU

1 Hvy Bde Afloat by C+15

2 Hvy Divs from CONUS by C+30

5 Div Contingency Corps (w/CSS) by C+75

AP3

Army Vision

BDE in 96 hrs

1 Div in 120 hrs

5 Div in 30 days

APS-3

RAIL

CONTAINERS

AUTOMATION

WATERCRAFT

CONUS INFRASTRUCTURE

HI-SPEED SEALIFT

ULTRA LARGE AIRLIFTER

SUPER SHORT TAKE-OFF & LANDING SYSTEM

WATERCRAFT RESTRUCTURING

PREPOSITIONING STRATEGY

CONUS/OCONUS INFRASTRUCTURE

BRIDGING ACTIONS UNDERWAY

ARMY POWER PROJECTION PROGRAM (AP3) ACTION PLAN DEVELOPMENT

POWER PROJECTION *TASK FORCE*

MOBILITY REQUIREMENTS STUDY- 2009

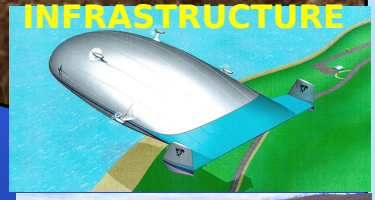
ARMY TRANFORMATION WAR GAME

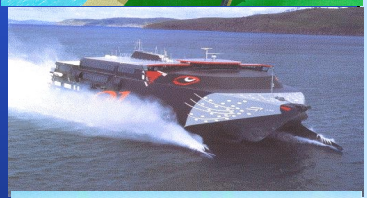
AP3 BASELINE DEPLOYMENT STUDY

AP3 DISTRIBUTION STUDY

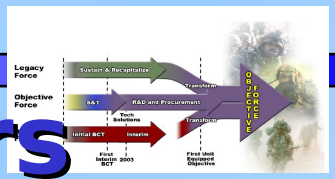
LMSR -18 ON HAND 19 BY FY02

C-17 - 80 ON HAND 120 BY FY04

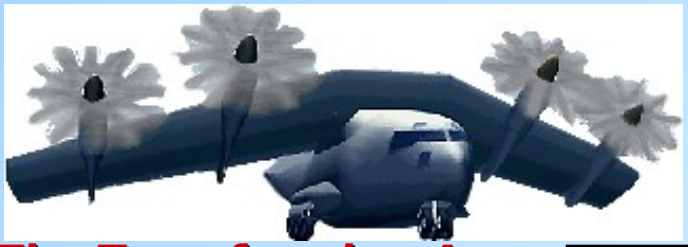




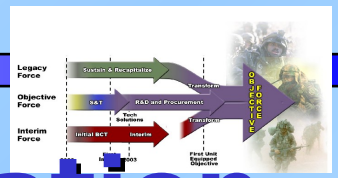
Critical AP3 Enablers



- **High Speed Sealift**
  - **100 knots, up to 10K ST, 10K NM range**
  - **Size requirements limit commercial applicatior**
  - **Technology?**
- **Ultra Large Airlift (ULA)**
  - **100-130 Knots, up to 1K ST, 8700 NM range**
  - **Commercial application for middle market?**
  - **Survivability = ?**
- **Infrastructure Enhancements**
  - **To address Legacy shortfalls**
  - **Interim/Objective force requirements**
- **Revised Prepositioning Strategy**
  - **Contribution to Stretch Goals**
  - **Flexibility -- Full Spectrum Ops -- Austere Entry**
- **Intratheater Lifter -- Super Short Take-off & L**
  - **Survivability/Flexibility**
  - **Unimproved Runway**
  - **Advanced Cargo Handling**
- **Automation – (TC-AIMS II / JFRG II)**



JIWG Concept of Operation



Joint Infrastructure Working

PURPOSE

- Support for Army Transformation Vision

SCOPE

- Joint Physical Infrastructure
- Deployment C2
- Service POM

BACKGROUND

- MRS BURU: Army Strategic Mobility Program = $5 Billion
- PPP Infrastructure Improvements

OBJECTIVES

- Develop Infrastructure Blueprints
- Leverage Existing Capabilities
- Identify Required Improvements
- Est. Army Transformation Infrastructure POM
- Est. a new ASMP-like Program for the Future

POINT: Cooperative Effort to Synchronize Service and Joint Programs

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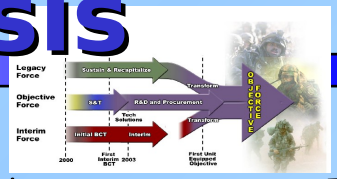
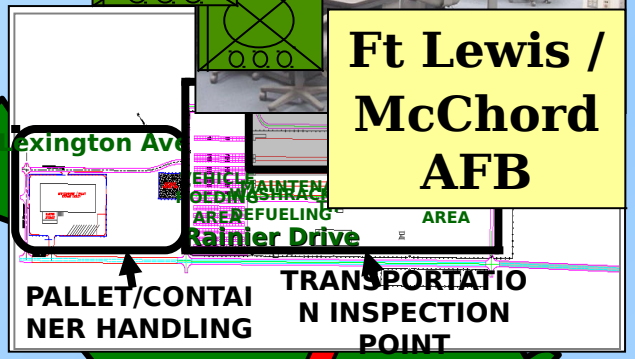
Infrastructure Analysis

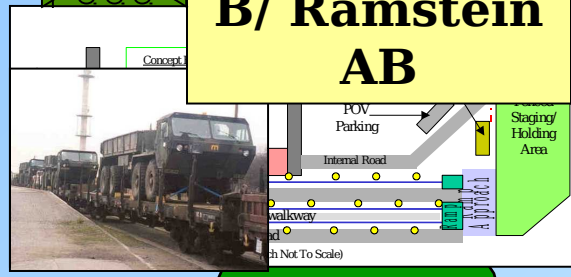


Ft Richardson/ Elmendorf AFB

Ft Lewis / McChord AFB



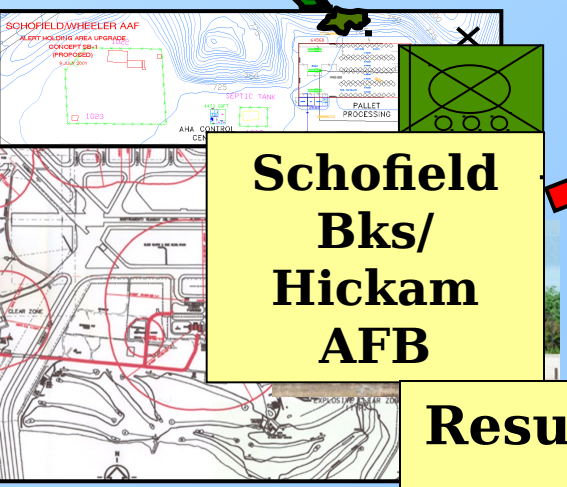
Germany/ROB/ Ramstein AB



Ft Polk/ Alexandria Int'l Airport

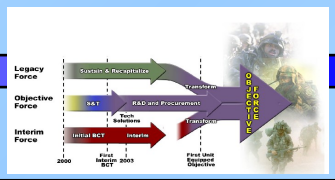
IBCT Infra Bill ~ $300M

Schofield Bks/ Hickam AFB



Results of Army/Air Force Infrastructure Analysis identified Deployment Shortfalls at IBCT Locations

Army Watercraft Restructuring Pla

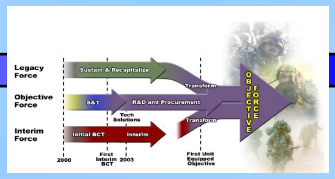


- Position Army watercraft for strategic & operational response

- Ensure the quantity and type watercraft support CINC requirements

- Balance the force structure without degrading capability

- Modernization



Theater Support Packages

END STATE

WATERCRAFT CAPABILITY IN PLACE TO SUPPORT CINC REQUIREMENTS

APS 4 - PACOM

Forward Stationed

3 LSVs – crewed PACOM

PREPO

1 Hvy Boat Co
1 Med Boat Plt + Maint
1 Floating Craft Co
1 Modular Causeway Co

APS 5 - CENTCOM

Forward Stationed

2 LSVs – 1 crewed CENTCOM
1 crewed EUCOM

PREPO

1 Hvy Boat Co
1 Med Boat Plt + Maint
1 Floating Craft Co
1 Modular Causeway Co

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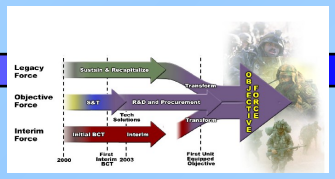
Situation



CINCs Want the Problem Solved; and They Are a Big Part of the Solution

END STATE

WATERCRAFT CAPABILITY IN PLACE TO SUPPORT CINC

Contracts

AC & SV Contracts Expire (09-02 & 06-03

AC & SV Equipment Placed in CINC/HN Approved Locations

AC & SV Equipment Unloaded

Watercraft Units Inactivate/Activate

Site Preparations Completed

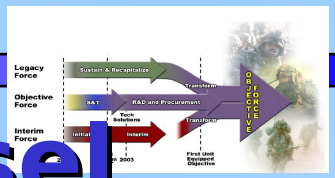
Site Approvals (CINCs, Political – Embassy & Host Nation)

Site Surveys

Optimal Glide

Theater Support Vessel

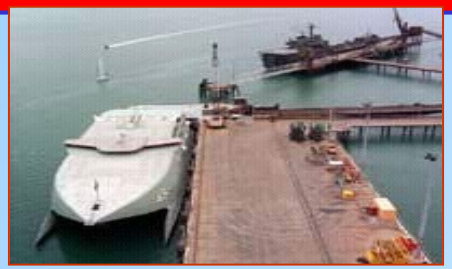
Objective Capabilities



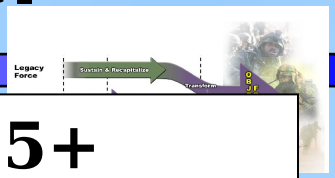
- 40+ Knots Fully Loaded
- 1250 ST Capacity
- Range: 4700+ NM @ 40+ knots (light load)
- Sea State 7+ Survivable (Wave Height up to 40-ft)
- Enroute Mission Planning
- Joint Interoperable
- Rapid Employment of PREPO Assets
- PAX & Equip Move Together
- Reduced AO CS/CSS Footprint
- By-Pass Theater Choke Points
- Access to Austere Ports
- Reduce Asymmetric

Increases Ports Accessible To JTF Commander By a Factor of 5






Theater Support Vessel (TSV)



TSV

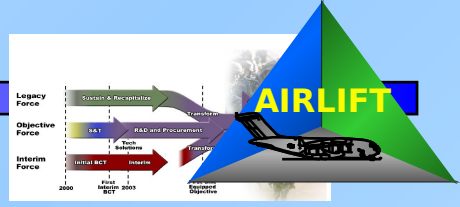
- High Speed (35+ Knots)
- Shallow Draft
- Cargo Weight Constraints

PREPO ASHORE

PREPO AFLOAT

Adding TSV to Forward Deployed Afloat/Ashore PREPO Provides Increased Options

Ultra Large Airlifters (ULAs)



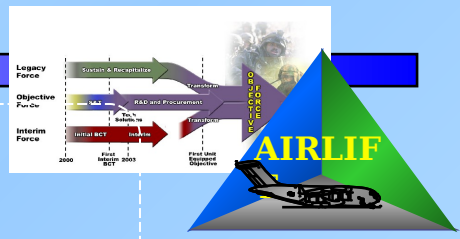
Future Capability ?

- Large Capacity
- Altitude Limited
- Relatively Slow
- Technology Risks
- Commercial Risks

Sky Cat (United Kingdom)

Cargo Lifter (Germany)

Usable Cargo Compartments

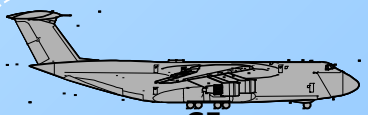


C130
50’ long
9’ wide
9’ high

12 STON

C17
85’ long
18’ wide
12’ high fwd of wing
14’ high aft of wing

45 STON



C5
144’ long
19’ wide
13.5’ high

61 STON

Cargo Lifter 160
164’ long
26’ wide
26’ high

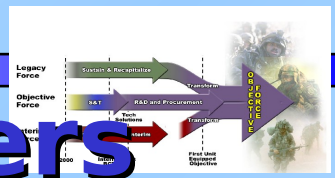
176 STON

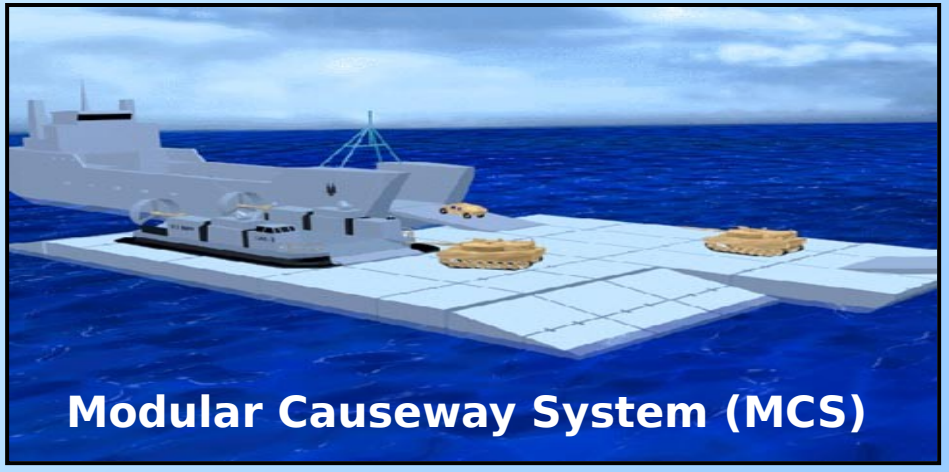
ULAs Offer Quantitative Increase in Volume

Sky Cat 1000
262’ long
40’ wide
26’ high

715 STON

Sea State (SS) Enablers



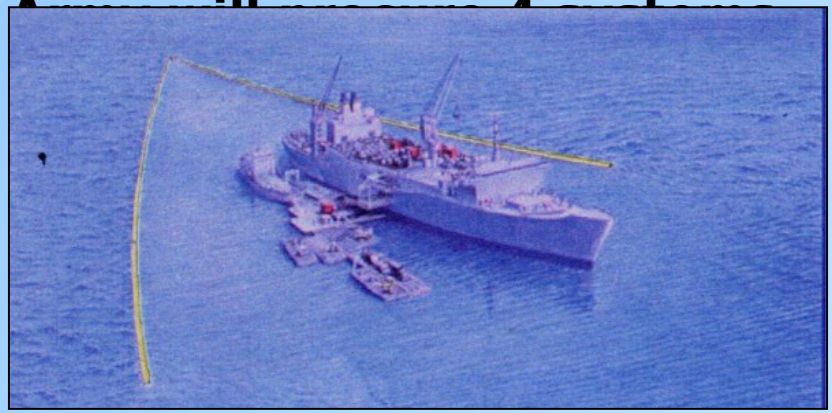


Modular Causeway System (MCS)

- Moves cargo from ship-to-shore

MCS

- Deployed aboard container ships
  or other cargo-type vessels
- Army will procure 4 systems

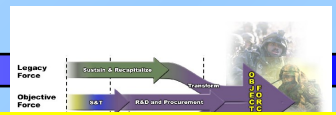


apidly Installed Breakwater System (RIBS)

RIBS

- Breakwater system mitigates
  SS3 to SS2 or less
- Jul 02 deploy final prototype with JFTX

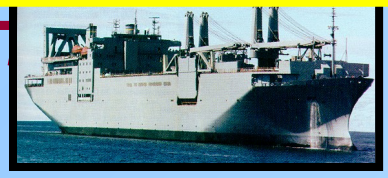
Capabilities of Army Watercraft



Current In-Stream

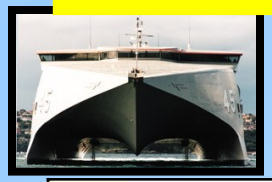
Joint Logistics Over The Shore (JLOT

- Instream discharge
- Through Sea State 3



2 LMSRs in the Stream

Future In-Stream



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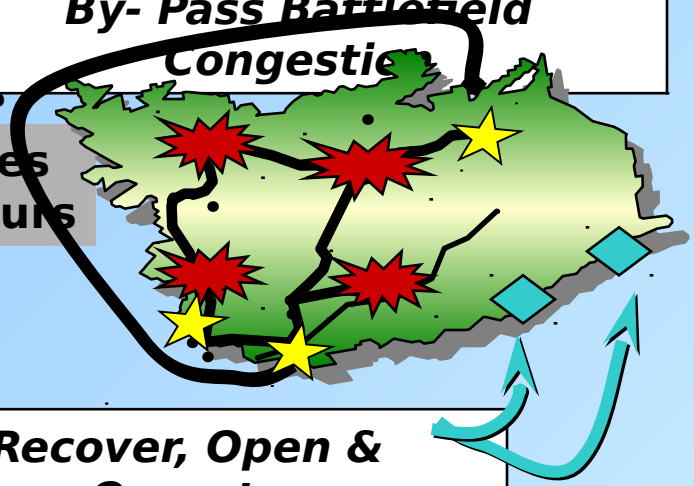
Intra-Theater Movement

- Heavy Battalion TF
- Sustainment - 340 - 20' containers

By- Pass Battlefield Congestion

400 miles in 40 hours



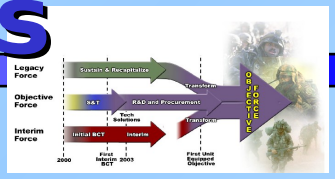
Port Opening

- Recovery and Salvage Opns
- Stand Alone or Support HN

Recover, Open & Operate Damaged or Degraded Ports

Army Watercraft Support All Pha ustainm

Three Types of Ports



"...port denial is one of the most likely early scenarios."

Mobility Requirements Study

Anti-Access Mitigation

Fixed Port
(Improved Port)

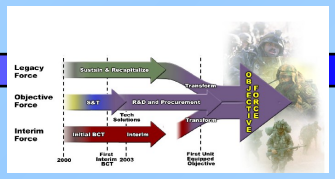
Unimproved Port
(Denied/Degraded Port)

Bare Beach
(No Port)

Army Watercraft Supports All Three Types

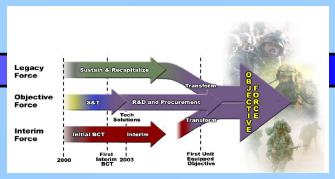
Sustaining The Transforming Army

Leverage Commercial Capabilities



- Containerization of Unit Equipment – improved force closure using VISA assets
- Shallow Draft High Speed Sealift
  - Intertheater
  - Intratheater
- Virtual Airlines
- CRAF
  - Effect design of PAX to cargo conversions
  - ULA ?
- VISA
  - Sustainment must keep pace with

Summary



Force Projection Supporting the Transforming Army… by:

Significant Challenges

Increasing Strategic Responsiveness, Reducing the Footprint, and Reducing Operating Cost

Need Essential Support from Commercial Sector and Adequate Funding within DoD…

Force Projection Supporting the Transforming Army

Questions?

CPT Sarah Small
Army G-4, Strategic Mobility Division